KODAK Batteries
Safety Data Sheet

SECTION 1: Identification

1.1. Product identifier

Product form : Article
Product name : KODAK Alkaline Batteries

ULTRA PREMIUM - AAA, AA,
MAX Super Alkaline – AAA, AA, C, D, 9V, 11A, 23A, 27A, 28A, 357 (LR44/KA76);
XTRALIFE - AAA, AA, C, D and 9V

1.2. Other Identification

No additional information available.

1.3. Recommended use of the chemical and restrictions on use

Consumer battery.
Uses advised against: not available.

1.4. Manufacturer, importer, or other responsible party

Strand USA Inc. :
295 Durham Avenue,
Suite 112
South Plainfield, NJ 07080
T +44 (0) 1252 861000
sales@strandeurope.com

1.5. Emergency telephone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night 1-800-424-9300 / +1 703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the chemical in accordance with HCS 2012 (29 CFR 1910.1200)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This product is considered to be an article, within the meaning of HCS 2012, and it is not required to classify the article or supply a safety data sheet, but this document contains information and advice concerning safe handling of the product.

Chemical components are contained within the article to prevent release during normal transport, storage and use. Contact with chemical content is not foreseen during normal use.

2.2. Symbols, signal word, hazard and precaut-ionary statements

Pictogram	None.
Signal word	None.
Hazard statements	None.
Precautionary statements	None.

2.3. Other hazards

Batteries are sealed so that exposure to contents is not foreseen during normal use. Exposure to fire, or mechanical or electrical stress may cause failure of the container and release of chemical components. Chemical components are hazardous. Chemical components causes eye damage and skin corrosion. Harmul if swallowed or inhaled. May cause damage to organs through prolonged or repeated exposure. Contact with hydrochloric acid may produce toxic gas (chlorine). May be corrosive to metals. Toxic to aquatic life with long lasting effects.

2.4. Statement of unknown hazard

The product does not contain substances present at >1% with unknown acute toxicity.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Declarable components	**Conc. (wt %)**	**Product identifier**
Not applicable to article	N/A	N/A
Other components		
Manganese dioxide	≥ 18 – < 42.6	CAS-No.: 1313-13-9
Zinc powder	≥ 8.9– < 17.4	CAS-No.: 7440-66-6
Potassium hydroxide	≥ 3.5 – < 10.3	CAS-No.: 1310-58-3
Graphite	≥ 1.5 – < 4.7	CAS-No.: 7782-42-5
Steel	≥ 15.7 – < 21.5	CAS-No.: 7439-89-6
Water	≥ 5 – < 12.2	CAS-No.: 7732-18-5
Brass	≥ 0.8 – < 3.5	CAS-No.: 12597-71-6
Ni-plating	≥ 0.2 – < 0.3	CAS-No.: 7440-02-0
Nylon-66	≥ 0.9 – < 1.6	CAS-No.: 32131-17-2
PBT plastic	≥ 4.0 – < 5.0	CAS-No.: 26062-94-2
Iron	≥ 13.5 – < 66.9	CAS-No.: 7439-89-6
PVC	≥ 0.9 – < 1.0	CAS-No.: 9002-86-2

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation — Product as supplied not inhalable. For inhalation of chemical contents, remove exposed person to fresh air and keep warm and at rest in a position comfortable for breathing. For difficulties in breathing, respiratory irritation, or other symptoms, call a poison centre or doctor.

Skin — Product as supplied not harmful to skin. For skin contact with chemicals, wash affected area with soap and water. Call a doctor if irritation, rash, or other symptoms occur.

Eye — Product as supplied not harmful to eyes. In case of contact of chemicals in eyes, rinse with room-temperature water or eyewash for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a doctor if irritation persists.

Ingestion — If battery is swallowed, get immediate medical attention. If chemicals are in mouth, rinse mouth thoroughly with water and spit out rinsings. Water may be given to drink if chemicals have been swallowed. Get prompt medical attention. Do not induce vomiting, unless instructed by medical personnel.

4.2. Most important symptoms and effects, both acute and delayed

A chemical component causes eye damage and skin corrosion. Expected to corrosive if swallowed or if inhaled. May cause damage to organs (eg brain via inhalation) through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

If battery is swallowed, get immediate medical attention. A chemical within the product is strongly alkaline, and dilution with copious water or careful neutralisation with dilute or weak acid will reduce its hazardous properties.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable : Any standard chemical fire extinguisher suited to the size of the fire.
Unsuitable : Not available

5.2. Special hazards arising from the chemical

Exposure to fire may result in the release of harmful and corrosive dust and vapors.

5.3. Special protective equipment and precautions for fire-fighters

Remove product from fire or cool containers with water spray. Firefighters should wear self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Product articles may be collected if undamaged.
For chemical spills of the contents, wear personal protection. Ventilate area and do not breathe vapors. Remove or extinguish sources of ignition.
Follow prescribed procedures for responding to spills and reporting to authorities.
For recommended personal protective equipment, see Section 8.
For disposal considerations, see Section 13

6.2. Methods and material for containment and cleaning up

Prevent chemical from entering water courses or drainage system.
Clean up any chemical spill as soon as possible. Do not flush to sewer. For small quantities, wipe off with damp cloth or paper.
For larger quantities, absorb with inert material and carefully sweep up or collect using vacuum cleaner.
Wash contaminated surfaces with water and detergent. Collect waste, washings, and contaminated materials for safe disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid damaging the product. Do not immerse in water or other liquid. Keep away from fire and strong heat. Do not disassemble the product.
Exposure to fire, or mechanical or electrical stress may cause failure of the container and release of chemical components.
Avoid skin and eye contact with the chemical content of the product, and inhalation of vapors. Ventilate area if exposure to chemicals is possible.
See Section 8 for personal protection.
Wash hands after contact with chemicals.
The user is advised that additional hazards may be present from handling the product. Avoid short circuits. Do not mix with other battery types. See instructions for use.

7.2. Conditions for safe storage, including any incompatibilities

Store product in a cool, dry well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Exposure limits	Manganese and inorganic compounds (as Mn): ACGIH TLV: TWA 0.02 mg/m3 (respirable), 0.1 mg/m3 (inhalable); OSHA PEL STEL 5 mg/m3 (ceiling); NIOSH REL: TWA 1 mg/m3, STEL 3 mg/m3.

8.2. Engineering controls

8.2.1. Appropriate engineering controls

No special measures required for battery.
For small or incidental chemical exposures, good general ventilation (3 to 5 air exchanges per hour) is recommended. For chemical processing, local exhaust ventilation or use in a closed system is required.

8.3. Individual protection measures

Not required for normal handling of the battery. The need for personal protective equipment should be based on a workplace risk assessment for the particular use. For contact with chemicals, wear chemical-resistant gloves and eye protection. Where more extensive contact may occur, wear protective clothing (eg apron, overalls). PPE should conform to state or federal standards. Consult manufacturers concerning breakthrough times.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	:	Solid consumer battery
Odour	:	None.
Odour threshold	:	Not available
pH		Not available
Melting point / freezing point	:	Not available
Initial boiling point/range	:	Not available
Flash Point		Not available
Evaporation rate		Not available
Flammability (solid, gas)	:	Not available
Flamm. Or expl. Limits		Not available
Explosive limits	:	Not available
Vapour pressure	:	Not available
Vapour density	:	Not available
Relative density		Not available
Solubillities		Not available
Partition coeff. (log K_{ow})		Not available
Auto-ignition temp.	:	Not available
Decomposition temp.	:	Not available
Viscosity	:	Not available

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not available.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Hazardous chemicals may leak from damaged product.

10.4. Conditions to avoid

Avoid damaging product with mechanical or electrical stress. Do not heat during use or storage. Strong heating may lead to leak, fire, or explosion. Avoid short circuits. Do not mix with other battery types.

10.5. Incompatible materials

Contents of the battery are strongly alkaline and may cause corrosion to metals. Avoid immersion of the battery in water or other liquid. Contact of manganese dioxide with hydrochloric acid may produce toxic gas (chlorine).

10.6. Hazardous decomposition products

Contents of the battery are strongly alkaline and may cause corrosion to skin and eye.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	:	Not applicable to battery article device. If swallowed, get immediate medical attention. Manganese dioxide: harmful if swallowed or inhaled. Potassium hydroxide: expected to corrosive if swallowed, in contact with skin, or if inhaled.
Skin corrosion/irritation	:	Not applicable to battery article device. Potassium hydroxide: causes corrosion of skin..
Serious eye damage/irritation	:	Not applicable to battery article device. Potassium hydroxide: causes serious eye damage.
Respiratory or skin sensitisation	:	Not applicable to battery article device. No relevant chemical component has been identified with this effect.
Germ cell mutagenicity	:	Not applicable to battery article device. No relevant chemical component has been identified with this effect.
Carcinogenicity	:	Not applicable to battery article device. No relevant chemical component has been identified with this effect.
Reproductive toxicity	:	Not applicable to battery article device. No relevant chemical component has been identified with this effect..
STOT-single exposure	:	Not applicable to battery article device. No relevant chemical component has been identified with this effect.
STOT-repeated exposure	:	Not applicable to battery article device. Manganese dioxide: may cause damage to organs through prolonged or repeated exposure, with particular effects on brain through inhalation.
Aspiration hazard	:	Not applicable to battery article device.

SECTION 12: Ecological information

12.1. Ecotoxicity

Not applicable to battery acticle.

Zinc powder: very toxic to aquatic life with long lasting effects.toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Battery article will persist in the environment.

12.3. Bioaccumulative potential

Not applicable to battery article.
No relevant chemical component has been identified as bioaccumulative.

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

No ingredient has been identified with endocrine disrupting properties relevant for the environment. No chemical component has been classified as hazardous to the ozone layer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The usual method of disposal of consumer batteries is via a recycling site. Disposal via landfill, drains, or incineration is not recommended.
This product should be disposed of according to current local, state, or federal regulations particularly relating to electrical and electronic devices.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4 Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Alkaline batteries for all modes of transportation (ground, air, or water) must be packaged in a strong outer packaging that prevents short circuits and spillage of contents. For air transport, see IATA/ICAO Special Provision A123.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the substance or mixture

	Section 302 (EHS TPQ)	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA Code	CAA 112(r) TQ
Manganese Compounds	–	–	hazardous substance	313 category code N450	–	–

OSHA: Hazard Communication Rule, 29 CFR, 1910.1200.

EPCRA (Emergency Planning and Community Right-to-Know Act): Section 302: Extremely Hazardous Substances (EHS), Threshold Planning Quantity (TPQ) in 40 CFR 355; EPCRA Section 304 gives EHS reportable quantities (RQ); Section 313 Toxic Chemicals, subject to annual reporting (40 CFR 372).

CERCLA (Comprehensive Environmental Response Compensation and Liability Act), Hazardous Substances; accidental release of substances above the Reportable Quantity (RQ) listed (in pounds) requires reporting; local reporting requirements may be in force.

RCRA Hazardous Wastes: RCRA P and U lists (40 CFR 261.33).

CAA Substances for Accidental Release Prevention: Clean Air Act 112 (r), Hazardous Air Pollutants; Threshold Quantities (TQ).

15.2. Other regulatory

This product is considered to be an article within the meaning of HCS 2012.

SECTION 16: Other information

Revisions	This SDS is the first version (1.0) in US format
Abbreviations	ACGIH, American Conference of Governmental Industrial Hygienists; HCS, Hazard Communication Standard; NIOSH, US National Institute for Occupational Safety and Health; OSHA, US Occupational Safety and Health Administration; PEL, permitted exposure limit; REL, recommended exposure limit; STEL, short-term exposure limit; STOT RE, specific target organ toxicity, repeated exposure; STOT SE, specific target organ toxicity, single exposure; TLV, threshold limit value; TWA, time-weighted average.
References	List of Lists; Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act; US EPA; March 2024. Information on Registered Substances; Chemical Substance Search; European Chemicals Agency (ECHA), available at the ECHA website: http://echa.europa.eu.
Basis of classification	This product is considered to be an article, within the meaning of HCS 2012, and hazard classification is not applicable. is not applicable.

Safety Data Sheet (SDS), US

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.